CHAOTIC BEHAVIOR IN THE FAMILY OF LORENZ SYSTEM

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Abstract. In this paper we consider a system of Lorenz family which is more general than the unified system containing Lorenz, Chen and Lü systems. We apply the center manifold method and show that the system can pass through pitchfork and Hopf bifurcations which in turn take the system into a chaotic behavior.

REFERENCES


2010 Mathematics Subject Classification: 34A34.
Key words and phrases: Lorenz unified system, center manifold, Pitchfork bifurcation, Hopf bifurcation.

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